



Hatch Mott
MacDonald

Gateway View Plaza
1600 West Carson Street
Pittsburgh, PA 15219-1031
T 412.497.2900 www.hatchmott.com

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EPA REGION III

OCT 05 2012
NPDES PERMITS BRANCH
(3WP41)

October 4, 2012

Ms. Liz Ottinger
Office of Municipal Assistance (3WP24)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Subject: Municipal Sanitary Authority of the City of New Kensington
Headworks Analysis for Local Limits Reevaluation
HMM Project 303965

Dear Ms. Ottinger:

On behalf of the Municipal Sanitary Authority of the City of New Kensington, please find enclosed one (1) copy of the Headworks Analysis for Local Limits Reevaluation in hard copy and one (1) copy of the Appendix B Spreadsheet on a CD.

If you have any questions regarding the report, please contact me.

Sincerely,

Hatch Mott MacDonald

Linda French

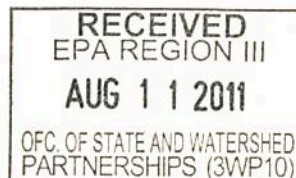
Linda French
Project Scientist
T 412.497.2912 F 412.497.2901
Linda.French@hatchmott.com

LDF/msr
Enclosures

cc: Joseph Ditty (MSANK)
Daniel H. Rowe, Jr. (MSANK)
Stephen Polen (HMM)



THE MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON



120 Logans Ferry Road, New Kensington, PA. 15068-2046
Phone (724) 335-9813 - Fax (724) 335-8289

August 8, 2011

Ms. Elizabeth Ottinger
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON
NPDES PERMIT NO. PA0027111
HEADWORKS ANALYSIS SAMPLING PLAN

Dear Ms. Ottinger:

On behalf of the Municipal Sanitary Authority of the City of New Kensington (MSANK), please find enclosed the proposed Headworks Analysis Sampling Plan that is being submitted for your review and approval.

It should be noted that there have been no significant changes in the number or type of industrial discharges to the MSANK treatment plant or to the influent, effluent and sludge quality since the previous headworks analysis was conducted in 2004. Based on these considerations, MSANK desires to conduct the required Headworks Analysis in the most cost effective manner possible.

Thank you for your consideration of this matter.

THE MUNICIPAL SANITARY AUTHORITY OF THE
CITY OF NEW KENSINGTON

A handwritten signature in black ink, appearing to read "Daniel H. Rowe, Jr." with a stylized flourish at the end.

Daniel H. Rowe, Jr.
Manager

Enclosure

Cc:

David Ponchione, P.E. – PADEP
Stephen Polen, P.E. – HMM
Linda French – HMM

HEADWORKS ANALYSIS SAMPLING PLAN

A. Pollutants to be Evaluated

✓ MSANK proposes to evaluate a total of eighteen parameters as part of the Headworks Analysis. The Headworks Analysis evaluation will consist of the "standard ten" parameters including Arsenic, Cadmium, Chromium, Copper, Cyanide, Lead, Mercury, Nickel, Silver and Zinc. Molybdenum and Selenium will also be evaluated due to their inclusion in EPA's and Pennsylvania sludge quality program. MSANK also has local limitations for Carbonaceous Biochemical Oxygen Demand, Total Suspended Solids, Hexavalent Chromium, Oil and Grease, Temperature and pH. No additional toxic pollutants are listed in the NPDES permit, nor have other priority pollutants been detected at significant levels during the priority pollutant scans conducted during the quarterly monitoring required by the Pretreatment Program.

B. Sampling Points

MSANK proposes the use of five sampling locations to conduct the Headworks Analysis. The proposed sampling locations are:

- ✓ 1. Raw Influent – the raw influent samples will be collected prior to the influent combining with any recycle or other internal waste streams.
- ✓ 2. Influent to Digester
- ✓ 3. Final Effluent
- ✓ 4. Background samples solely from domestic sources - MSANK applies the local limitations to commercial as well as industrial facilities within the service area. The Municipal Water Authority of the City of New Kensington is the sole supplier of potable water within the MSANK service area. MSANK proposes to collect background samples from sewer segments located in residential sections of Lower Burrell, the City of Arnold and the City of New Kensington. The background samples will be collected on the same days that the Influent and Effluent samples are collected.
- ✓ 5. Sludge

IN SENATE

January 10, 1907.

REPORT

OF THE

COMMISSIONER

OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE

APRIL 10, 1906.

C. Number and Type of Sampling Events

1. Historical Sample Data

✓ MSANK proposes to use historical monitoring data from years 2006 to 2010 to supplement the samples to be collected for the Headworks Analysis.

2. Proposed Sample Data

✓ In order to assess current plant conditions, MSANK proposes to supplement the referenced historical data by conducting sampling on a daily basis for a five-day period. Grab samples will be collected for Cyanide, Hexavalent Chromium, and Oil and Grease. Temperature and pH will be evaluated through on-site testing procedures. All other parameters will be evaluated using 24-hour composite samples. Proposed sample data includes the following:

a. Raw Influent and Final Effluent

✓ Five, 24-hour composite samples of the Raw Influent and Final Effluent samples will be collected for analysis. These samples will be analyzed for the eighteen parameters referenced previously.

b. Influent to Digester

✓ A total of five daily grab samples of Influent to Digester will be collected and analyzed for the non-conservative parameter of Cyanide. The samples will be collected on days when Influent and Effluent samples are being collected.

c. Background

✓ Six, 24-hour composite samples of Background wastewater from domestic sources will be analyzed for the eighteen parameters referenced previously. Two samples will be collected from a background sampling location in New Kensington, two samples will be collected from a sampling location in Arnold and two samples will be collected from a sampling location in Lower Burrell.

d. Sludge

✓ Five samples of sludge will be collected from the belt filter press area at the treatment plant. In order to obtain a representative sample, grab samples of sludge will be collected and then combined to form a single composite sample of sludge that will be analyzed for the eighteen parameters referenced previously. One composite sample of sludge will be collected per day, over a five-day period. Sludge samples will be collected on days when Influent and Effluent samples are being collected.

D. Analytical Methods/Detection Levels

MSANK proposes to conduct all pollutant analyses using EPA methodology with the most sensitive detection levels available for each method. A listing of the parameters and the proposed analytical methods are as follow:

Parameter	Analytical Method	Parameter	Analytical Method
Arsenic	SM18 3113B	Total Suspended Solids	SM18 2540D
Cadmium	EPA 200.8	Hexavalent Chromium	EPA 218.4
Chromium	EPA 200.8	Oil and Grease	EPA 1664A
Copper	EPA 200.7	pH	EPA 150.1
Cyanide	EPA 335.3	Lead	SM18 3113B

Parameter	Analytical Method	Parameter	Analytical Method
Mercury	SM18 3112B	Temperature	SM18 2550B
Nickel	EPA 200.8	Carbonaceous Biochemical	
Silver	EPA 272.2	Oxygen Demand	EPA 405.1
Zinc	EPA 200.7		
Molybdenum	EPA 200.8		
Selenium	SM18 3114B		

E. Schedule

MSANK proposes to conduct the required headworks analysis under the following schedule:

Sample Collection	September 2011
Evaluation of Sample Collection Data	October 2011
Headwork Analysis / Local Limits Reevaluation	November 2011
Submission of Local Limits Reevaluation to EPA	December 2011

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5408 S. UNIVERSITY AVE.
CHICAGO, ILL. 60637
TEL: 773-936-5000
FAX: 773-936-5001

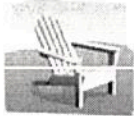
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Re: FW: New Kensington Followup Headwork Analysis 
John Lovell to: Ponchione, David
Cc: Elizabeth Ottinger

07/13/2011 03:59 PM

Dave - Sorry about losing the file. I did take a look at the data and I don't think that it justifies skipping the local limits reevaluation. There are 3 reasons why I came to that conclusion.

1 - I think the data that they submitted shows that the removal for several of the pollutants are not consistent with the removals used in the 2004 local limits evaluation (this is the most recent evaluation that we have). I've attached a spreadsheet that evaluates the removals based on the data that they submitted and shows the 2006 through 2010 average and the 2004 removal. The removals for several pollutants appears to have changed. That would suggest that the local limits for those pollutants may need to be changed.



New Kensington Removals.xlsx

2 - Looking at the evaluations of the influent and effluent data that we've done with the annual pretreatment reports for the last few years indicates that there have been exceedances of the influent, effluent, and sludge goals for some pollutants. While exceedances of these goals are not violations, they do indicate potential issues with the local limits or the goals that are calculated based on the last limits evaluation. Those issues suggest that the limits (and the goals that are derived from the limits) need to be reevaluated.

3 - Since 2004 I'm pretty sure you guys have revised some of the water quality standards. Since the water quality standards are used to develop the local limits, that would suggest some of the local limits will change based on the changes in the water quality standards.

Bottom line is that I don't think that there is justification for skipping the limits reevaluation.

Let me know if you have any questions. I'm out on vacation starting tomorrow and won't be back until 7/25, but we can discuss it at that time if you have any questions.

John Lovell
Pretreatment Coordinator
EPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029
215-814-5790
215-814-2318 (fax - NEW)

"Ponchione, David"

Per your request. ...

07/12/2011 07:52:00 AM

From: "Ponchione, David" <dponchione@state.pa.us>
To: John Lovell/R3/USEPA/US@EPA
Date: 07/12/2011 07:52 AM
Subject: FW: New Kensington Followup Headwork Analysis

Per your request.

From: Ponchione, David
Sent: Thursday, April 07, 2011 1:05 PM
To: 'Lovell.John@epamail.epa.gov'
Subject: New Kensington Followup Headwork Analysis

John,

Attached is MSANK's response concerning their request to delay conducting a headwork's analysis until their next NPDES renewal permit is issued. I included the data that was submitted with their April 4th letter. Also enclosed is the March 10, 2011 letter that I sent to them. I'll use your comments in my response.

Thanks,
Dave

[attachment "4705_001.pdf" deleted by John Lovell/R3/USEPA/US]

New Kensington Removals

Pollutant	2004 Removal	2006 Removal	2007 Removal	2008 Removal	2009 Removal	2010 Removal	Avg 2006 - 2010
Arsenic	45	-	-	-	-	-	-
Cadmium	67	-	-	-	-	-	-
Chromium	77.6	-	73.68	47.06	73.91	-	64.89
Copper	72.9	33.06	79.73	61.11	80.82	50.00	60.94
Cyanide	69	-	-	-	-	-	-
Lead	81.9	-	64.29	45.45	50.00	-	53.25
Mercury	60	-	-	-	-	-	-
Molybdenum	40.9	-	-	-	-	-	-
Nickel	44.4	-	73.91	45.45	57.14	17.86	48.59
Selenium	50	-	-	-	-	-	-
Silver	78.2	-	-	-	-	-	-
Zinc	53.4	41.78	75.00	56.21	56.76	33.94	52.74
Ammonia	36.5	82.20	76.69	80.55	92.38	76.19	81.60
Hex Chrome	0	-	-	-	-	-	-
Phenolics	77.8	-	54.55	-	50.88	-	52.71

2004 removal is the removal from the most recent local limits evaluation.

New Kensington Removal Calculation

Pollutant	2006				2007				2008			
	Inf	Eff	Removal	Removal	Inf	Eff	Removal	Removal	Inf	Eff	Removal	Removal
Arsenic	<0.01	<0.01	#VALUE!	-	<0.01	<0.01	#VALUE!	-	<0.01	<0.01	#VALUE!	-
Cadmium	<0.005	<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-
Chromium	<0.011	<0.008	#VALUE!	-	0.019	0.005	73.6842105	73.68	0.017	0.009	47.0588235	47.06
Copper	0.245	0.164	33.0612245	33.06	0.074	0.015	79.7297297	79.73	0.072	0.028	61.1111111	61.11
Cyanide	<0.009	0.014	#VALUE!	-	<0.005	0.009	#VALUE!	-	<0.005	<0.007	#VALUE!	-
Lead	<0.012	<0.007	#VALUE!	-	0.014	0.005	64.2857143	64.29	0.011	0.006	45.4545455	45.45
Mercury	<0.0002	<0.0002	#VALUE!	-	<0.0002	<0.0002	#VALUE!	-	<0.001	<0.0003	#VALUE!	-
Molybdenum			#DIV/0!	-			#DIV/0!	-			#DIV/0!	-
Nickel	<0.030	0.03	#VALUE!	-	0.046	0.012	73.9130435	73.91	0.044	0.024	45.4545455	45.45
Selenium	<0.008	<0.008	#VALUE!	-	<0.011	<0.01	#VALUE!	-	<0.012	<0.01	#VALUE!	-
Silver		<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-	<0.006	<0.005	#VALUE!	-
Zinc	0.225	0.131	41.7777778	41.78	0.284	0.071	75	75.00	0.29	0.127	56.2068966	56.21
Ammonia	9.55	1.7	82.1989529	82.20	14.16	3.3	76.6949153	76.69	13.37	2.6	80.5534779	80.55
Hex Chrome	<0.01	<0.01	#VALUE!	-	<0.005	<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-
Phenolics	<0.13	0.13	#VALUE!	-	0.011	0.005	54.5454545	54.55	0.07	<0.08	#VALUE!	-

New Kensington Removal Calculation

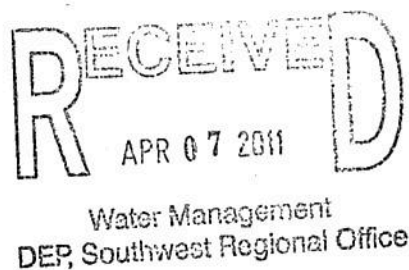
Pollutant	2009				2010			
	Inf	Eff	Removal	Removal	Inf	Eff	Removal	Removal
Arsenic	<0.01	<0.01	#VALUE!	-	<0.01	<0.01	#VALUE!	-
Cadmium	<0.005	<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-
Chromium	0.023	0.006	73.9130435	73.91	<0.008	<0.007	#VALUE!	-
Copper	0.073	0.014	80.8219178	80.82	0.034	0.017	50	50.00
Cyanide	<0.005	<0.008	#VALUE!	-	<0.008	<0.008	#VALUE!	-
Lead	0.01	0.005	50	50.00	<0.007	<0.005	#VALUE!	-
Mercury	<0.0002	<0.0002	#VALUE!	-	<0.0002	<0.0002	#VALUE!	-
Molybdenum			#DIV/0!	-			#DIV/0!	-
Nickel	0.049	0.021	57.1428571	57.14	0.028	0.023	17.85714286	17.86
Selenium	<0.01	<0.01	#VALUE!	-	<0.01	<0.01	#VALUE!	-
Silver	<0.005	<0.005	#VALUE!	-	<0.005	<0.005	#VALUE!	-
Zinc	0.296	0.128	56.7567568	56.76	0.165	0.109	33.93939394	33.94
Ammonia	21	1.6	92.3809524	92.38	12.6	3	76.19047619	76.19
Hex Chrome	<0.006	<0.006	#VALUE!	-	<0.01	<0.01	#VALUE!	-
Phenolics	0.057	0.028	50.877193	50.88	<0.35	<0.24	#VALUE!	-

THE MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON

120 Logans Ferry Road, New Kensington, PA. 15068-2046
Phone (724) 335-9813 - Fax (724) 335-8289

April 4, 2011

Mr. David Ponchione
Environmental Engineer
Water Management
PA Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA 15222-4745



**Re: Municipal Sanitary Authority of the City of New Kensington
NPDES Permit PA027111
Headworks Analysis**

Dear Mr. Ponchione:

On behalf of the Municipal Sanitary Authority of the City of New Kensington (MSANK), this letter responds to your letter dated March 10, 2011. Your letter stated that if MSANK believes the local limits re-evaluation required by their current NPDES permit would result in maintaining the current local limits, a modified evaluation could be submitted to satisfy the local limits re-evaluation requirement.

This submission constitutes MSANK's modified evaluation. A summary of the historical influent, effluent and sludge yearly average data from 2006 through 2010 is attached. This summary demonstrates that the characteristics of the influent, effluent and sludge have remained consistent over the past five years.

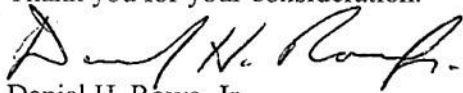
The NPDES permit that was issued by the Department of Environmental Protection on June 24, 2010 includes the same permit limitations as the NPDES permit that was in effect when the previous headworks analysis was conducted in 2004. There have been no changes to the sludge standards or known changes to the inhibition criteria.

There have also been no changes to the flow rates, removal rates and background concentrations at the treatment plant. Copies of the treatment plant Monthly Performance Summaries from 2006 through 2010 are attached for your review. These summaries demonstrate that there have been no changes in the effectiveness of the treatment plant processes.

Additionally, the headworks analysis conducted in 2004 resulted in more stringent local limits therefore a headworks re-evaluation to meet the sludge goals is not warranted.

Based on the consistency of the factors referenced above, MSANK believes the re-evaluation would result in maintaining the existing local limits therefore a re-evaluation of the local limits is not necessary at this time. MSANK requests that the requirement to conduct a headworks analysis be delayed until the next NPDES renewal permit is issued.

Thank you for your consideration.

A handwritten signature in dark ink, appearing to read "Daniel H. Rowe, Jr.", written in a cursive style.

Daniel H. Rowe, Jr.
Manager

Cc Linda French, H.M.M.
File

2010

*PERMIT LIMIT FOR PERIOD 5/1 - 9/30
Effective 9/26/98

2009

(a) The Influent sampler has been temporarily removed because of project construction activities

2008

(a) The influent sampler has been temporarily removed because of project construction activities

2007

	INFLUENT										30 DAY AVERAGE - EFFLUENT										MAX WEEKLY AVERAGE				MAXIMUM DAY				FINAL	
	BYPASS FLOW MGD	TREATED FLOW MGD	TOTAL FLOW MGD	FLOW MAX MGD	BOD5 INF. mg/l	TSS INF. mg/l	INF. LOAD		CBOD5 EFF. mg/l	TSS EFF. mg/l	EFFLUENT LOAD		FECAL COL. #/100 ml	CBOD5 mg/l	TSS mg/l	FECAL COL. #/100 ml	CBOD5 mg/l	TSS mg/l	FECAL COL. #/100 ml	CBOD5 mg/l	TSS mg/l	FECAL COL. #/100 ml	CBOD5 mg/l	TSS mg/l	FECAL COL. #/100 ml	CL2 mg/l	pH			
							BOD5 LB/D	TSS LB/D			CBOD5 LB/D	TSS LB/D																CBOD5 LB/D	TSS LB/D	CBOD5 LB/D
PLANT DESIGN PERMIT PA0027111			6.0		204	204	8500	7490																						
JANUARY 2007		7.185	7.868	12.25	95.5	148	5761	9002	11	15	822	1013	290	17.0	19	626	2.1	54	64	2.1	54	64	2.1	54	64	0.32	6.8			
FEBRUARY 2007	0.430	6.066	6.200	9.63	111	113	5504	9658	11	8	651	1003	52	16.0	29	123	52	133	133	52	133	133	52	133	133	0.47	7.4			
MARCH 2007	1.420	7.020	8.450	12.18	122	200	6882	11013	12	13	899	1006	92	16.0	20	141	33	59	59	33	59	59	33	59	59	0.34	6.8			
APRIL 2007	0.460	6.980	7.440	10.88	74	98	4362	5386	7	6	482	415	58	14.3	8	128	19	18	18	19	18	18	19	18	18	0.33	7.2			
MAY 2007	0.067	5.358	5.425	8.34	108	141	4864	6346	7	6	309	278	18	8.0	14	21	22	61	17	17	61	17	61	17	61	0.30	8.5			
JUNE 2007	0.467	5.050	5.517	8.86	86	140	3870	6390	6	9	296	488	25	8.0	18	48	16	23	23	18	23	23	16	23	23	0.40	7.3			
JULY 2007	0.202	5.078	5.280	10.1	83	117	3523	4875	6	8	286	406	69	8.0	18	297	16	23	23	18	23	23	16	23	23	0.37	6.6			
AUGUST 2007	0.676	6.079	6.755	14.45	76	104	3727	5432	6	7	401	503	109	7.0	9	248	16	31	31	9	31	31	16	31	31	0.39	6.8			
SEPTEMBER 2007	0.048	4.617	4.665	7.46	95	160	3698	6126	6	8	256	307	82	9.0	10	279	12	24	24	10	24	24	12	24	24	0.33	6.7			
OCTOBER 2007	0.062	4.342	4.404	7.5	142	195	5124	7120	8	12	306	538	57	11.0	33.0	124	47	192	192	33.0	192	192	47	192	192	0.39	6.9			
NOVEMBER 2007	0.380	5.638	6.048	13.03	116	147	5177	6624	10	17	476	747	65	15.0	31	121	44	125	125	31	125	125	44	125	125	0.42	6.8			
DECEMBER 2007	1.060	7.380	8.440	13.60	81	101	5175	6712	11	13	810	1015	780	17.0	23	5015	21	35	35	23	35	35	21	35	35	0.25	7.5			
ANNUAL AVERAGE	0.470	5.904	6.374	14.45	99	145	4806	7100	8	10	500	645	141	11.9	19	595	27	65	65	19	65	65	27	65	65	0.36	6.7			

CBOBS - FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND

TSS - TOTAL SUSPENDED SOLIDS

NH3-N - AMMONIA NITROGEN

DO - DISSOLVED OXYGEN

FECAL COL. - FECAL COLIFORM

PERMIT LIMIT FOR PERIOD 6/1 - 9/30

Effective 9/26/98

DECEMBER 2006	0.023	5.236	5.259	7.20	147	214	6352	9302	7	10	325	456	60	9.0	15	673	217	25	54	25	54	25	54	25	54	1975	0.24	6.7
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2006

FECAL COL. - FECAL COLIFORM

**Municipal Sanitary Authority of New Kensington
Historical Monitoring Data Summary**

Influent Data 2006 - 2010

	Units	Goal	2006 Average	2007 Average	2008 Average	2009 Average	2010 Average
CBOD	mg/l	217.3913	99	143	108	145	72
TSS	mg/l	294.1176	134	155	143	132	92
Cyanide	mg/l	0.0229	<0.009	<0.005	<0.005	<0.005	<0.008
Copper	mg/l	0.1934	0.245	0.074	0.072	0.073	0.034
Lead	mg/l	1.4632	<0.012	0.014	0.011	0.010	<0.007
Zinc	mg/l	0.559	0.225	0.284	0.290	0.296	0.165
Chromium	mg/l	1.3699	<0.011	0.019	0.017	0.023	<0.008
Nickel	mg/l	0.0794	<0.030	0.046	0.044	0.049	0.028
Cadmium	mg/l	0.1052	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/l	0.02	<0.0002	<0.0002	<0.001	<0.0002	<0.0002
Arsenic	mg/l	0.0125	<0.010	<0.010	<0.01	<0.01	<0.010
Hex. Chromium	mg/l	0.25	<0.01	<0.005	<0.005	<0.006	<0.010
Selenium	mg/l	1.48	<0.008	<0.011	<0.012	<0.01	<0.01
Silver	mg/l	0.0586		<0.005	<0.006	<0.005	<0.005
Oil and Grease	mg/l	No Goal	<0.005	<9.55	<23.4	31	18.4
pH	s.u.	No Goal	7.2 / 7.6	7.1 / 7.2	7.1 / 7.5	7.2 / 7.6	7.2 / 8.3
Ammonia	mg/l	No Goal	9.55	14.16	13.37	21	12.6
Phosphorus	mg/l	No Goal	9.48	4.07	4.2	6.6	2.4
Phenol	mg/l	50	<0.13	0.011	0.07	0.057	<0.35
TPH	mg/l	No Goal	<5.0	<5.0	<7.86	6.4	<5.0

Effluent Data 2006 - 2010

	Units	Goal	2006 Average	2007 Average	2008 Average	2009 Average	2010 Average
CBOD	mg/l	25	6	14	17	11	16
TSS	mg/l	30	19	26	41	26	29
Cyanide	mg/l	0.338	0.014	0.009	<0.007	<0.008	<0.008
Copper	mg/l	0.26	0.164	0.015	0.028	0.014	0.017
Lead	mg/l	0.66	<0.007	<0.005	<0.006	<0.005	<0.005
Zinc	mg/l	2.18	0.131	0.071	0.127	0.128	0.109
Chromium	mg/l	0.25	<0.008	<0.005	<0.009	<0.006	<0.007
Nickel	mg/l	8.5	0.03	0.012	0.024	0.021	0.023
Cadmium	mg/l	0.087	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/l	0.008	<0.0002	<0.0002	<0.0003	<0.0002	<0.0002
Arsenic	mg/l	3.0122	<0.010	<0.01	<0.010	<0.010	<0.010
Hex. Chromium	mg/l	No Goal	<0.010	<0.005	<0.005	<0.006	<0.010
Selenium	mg/l	0.74	<0.008	<0.01	<0.010	<0.010	<0.010
Silver	mg/l	0.088	<0.005	<0.005	<0.005	<0.005	<0.005
Oil and Grease	mg/l	No Goal	5	<5	9.4	<5	<5
pH	s.u.	No Goal	5.9 / 7.0	6.8 / 7.0	6.7 / 7.1	6.6 / 7.2	6.9 / 7.4
Ammonia	mg/l	No Goal	1.7	3.3	2.6	1.6	3
Phosphorus	mg/l	No Goal	11.6	1.3	2.29	1.58	1.1
Phenol	mg/l	1562	0.13	<0.005	<0.08	<0.028	<0.24
TPH	mg/l	No Goal	<5.0	<5.0	<5.0	<5.0	<5.0

**Municipal Sanitary Authority of New Kensington
Historical Monitoring Data Summary**

Sludge Data 2006 - 2010

	Units	Goal	2006 Average	2007 Average	2008 Average	2009 Average	2010 Average
CBOD	mg/kg	No Goal	10481	6437	1135	1707	15138
% Solids	mg/kg	No Goal	18.5	17.5	18.6	16.4	--
Cyanide	mg/kg	No Goal	<1.6	85.7	5.5	9.9	10.5
Copper	mg/kg	1500	718.8	906.9	117.9	856.4	868.8
Lead	mg/kg	300	150.1	152.7	101.8	116.4	125.1
Zinc	mg/kg	2800	2212	2768	2174	2530	3026
Chromium	mg/kg	No Goal	227.9	232.7	171.3	311.6	305.8
Nickel	mg/kg	420	337.4	511.8	474.4	679.1	763.9
Cadmium	mg/kg	41	10.9	7.1	3.1	4.9	10.0
Mercury	mg/kg	17	1.2	1.3	<0.5	0.7	0.3
Arsenic	mg/kg	39	<5.5	<5.9	<4.5	<6.6	<6.4
Hex. Chromium	mg/kg	No Goal	<1.8	<1.4	<0.08	<1.6	<0.06
Selenium	mg/kg	100	14.9	<46.1	<4.4	<6.1	<5.6
Silver	mg/kg	No Goal	29.7	37.3	28.4	<8.9	38.9
Oil and Grease	mg/kg	No Goal	229760	<53433	54573	86557	--
pH (min / max)	s..u.	No Goal	7.6 / 8.5	6.8 / 7.2	6.6 / 7.5	6.8 / 7.4	--
Ammonia	mg/kg	No Goal	41.3	6642.1	6454	6089	--
Phosphorus	mg/kg	No Goal	14125	951.3	7406.2	20489	--
Phenol	mg/kg	No Goal	33.8	30.9	40.3	63.5	36.7
TPH	mg/kg	No Goal	24975	<14029	24889	41273	--



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST REGIONAL OFFICE

March 10, 2011

Daniel H. Rowe, Jr., Manager
The Municipal Sanitary Authority of the City of New Kensington
120 Logans Ferry Road
New Kensington, PA 15068-2046

Re: Sewerage
Municipal Sanitary Authority of the City of New Kensington (MSANK) STP
NPDES PA0027111
Headwork's Analysis
City of New Kensington
Westmoreland County

Dear Mr. Rowe:

This is in response to your March 7, 2011 letter.

I contacted U.S. EPA Pretreatment Coordinator, Mr. John Lovell, regarding your request to delay conducting a headwork's analysis until the next permit renewal cycle and learned that MSANK does not qualify to do so. The Department, therefore, cannot approve your request.

40 CFR 122.44(j)(2) requires POTWs provide a "written technical evaluation of the need to revise local limits" after permit issuance, and that is what the headwork's analysis provision is implementing. EPA may have looked favorably at your request if monitoring during the previous permit cycle demonstrated your plant consistently met all of the influent, effluent, and sludge goals established as part of the previous local limits evaluation. However, based on existing data, elevated levels of nickel and zinc (meaning exceedances of the exceptional quality standards for land application of sludge) makes MSANK ineligible to skip the re-evaluation for this permit cycle. Sludge land application standards are the goal even if a POTW does not land apply because one of the objectives of the pretreatment program (40 CFR 403.2) is to improve the opportunity to reclaim and recycle sludge. The exceedances of the sludge goals suggest that the local limits may need to be made more stringent in order for the MSANK STP to meet those goals.

If MSANK believes the re-evaluation would result in maintaining the current local limits, please provide a modified evaluation to satisfy the re-evaluation requirement. Under this approach, please review data that went into the previous evaluation to demonstrate that no changes have occurred. You must demonstrate that the criteria that went into the evaluation (NPDES limits, water quality standards, sludge standards, inhibition criteria) have not changed, and that other site specific data have not changed including flow rates, removal rates and background concentrations. This demonstration must be based on data that has been collected since the last re-evaluation, such as the quarterly influent, effluent, and sludge monitoring data required by the NPDES permit.

400 Waterfront Drive, Pittsburgh, PA 15222-4745

412.442.4000 FAX 412.442.5885

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Daniel H. Rowe, Jr.

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March 10, 2011

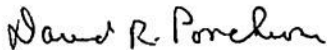
Please note that since the permit was re-issued on June 24, 2010, the list of pollutants and sampling plan was due September 24, 2010, and the re-evaluation is due June 24, 2011.

Should you have any questions, please feel free to call Mr. Lovell at the following telephone number: 215.814.5790. You may also write to him at his e-mail address: Lovell.John@epamail.epa.gov or at the following mailing address:

U.S. EPA-Region III
Pretreatment Coordinator (3WP41)
1650 Arch Street
Philadelphia, PA 19103-2029

Copies of all correspondence and reports dealing with this issue shall be sent to the Department at the address listed below.

Sincerely,



David R. Ponchione
Environmental Engineer
Water Management

cc: John Lovell – U. S. EPA Region III

bcc: D. Leone
D. Ponchione
r
r(2) NPDES PA0027111

DRP:imp

